

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P475720

Luminaire Tested: **24GR-LD5-48-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475720
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-A-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4710.4 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

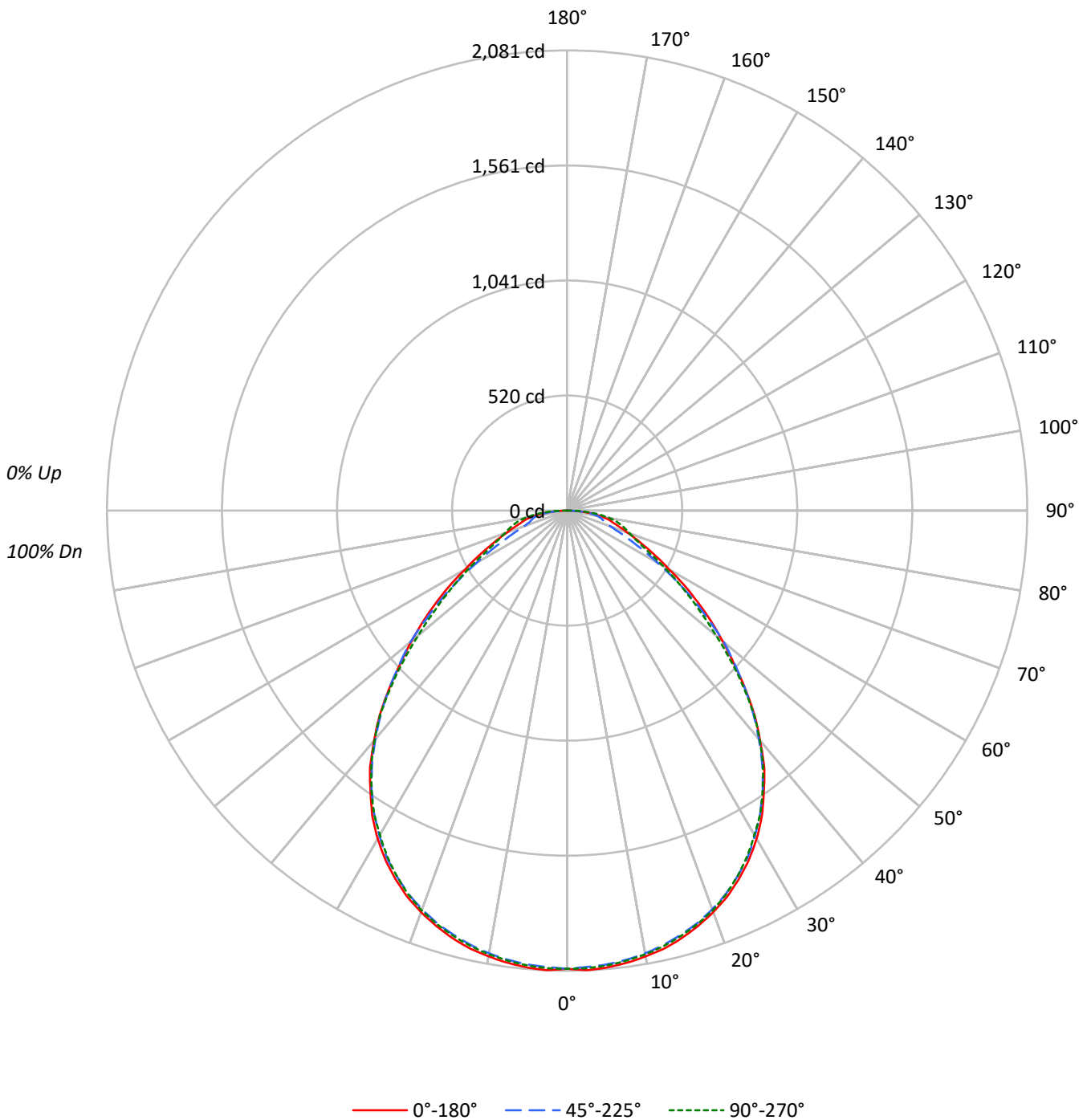
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2788	2788	2788
5°	2801	2783	2789
10°	2797	2778	2784
15°	2789	2767	2774
20°	2767	2747	2755
25°	2729	2709	2707
30°	2662	2638	2632
35°	2548	2532	2532
40°	2384	2370	2380
45°	2165	2161	2144
50°	1920	1935	1840
55°	1687	1613	1575
60°	1436	1274	1340
65°	1255	991	1183
70°	1135	816	1181
75°	1135	870	1319
80°	1251	1071	1509
85°	1289	1203	1647



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.2	4.2
10°-20°	561.6	11.9
20°-30°	840.2	17.8
30°-40°	961.4	20.4
40°-50°	871.1	18.5
50°-60°	616.7	13.1
60°-70°	356.3	7.6
70°-80°	216.0	4.6
80°-90°	90.9	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1598.0	33.9
0°-40°	2559.4	54.3
0°-60°	4047.2	85.9
0°-90°	4710.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4710.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2072	2072	2072	2072	2072	
5°	2074	2067	2060	2060	2065	197
15°	2002	1994	1986	1986	1991	565
25°	1838	1831	1825	1823	1823	845
35°	1551	1544	1542	1539	1542	968
45°	1138	1135	1136	1128	1127	876
55°	719	695	688	667	672	645
65°	394	353	311	356	372	396
75°	218	196	167	215	254	234
85°	84	75	78	100	107	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2071.8	2071.8	2071.8	2071.8	2071.8
2.5°	2080.6	2072.7	2065.8	2066.7	2071.8
5°	2074.1	2066.7	2060.2	2059.7	2064.8
7.5°	2063.0	2056.5	2049.1	2049.1	2053.2
10°	2047.2	2040.7	2033.3	2032.8	2037.5
12.5°	2028.6	2020.3	2012.4	2012.4	2017.5
15°	2002.2	1994.3	1986.4	1986.4	1991.1
17.5°	1969.7	1962.8	1956.3	1956.8	1960.5
20°	1932.6	1925.7	1918.7	1919.7	1923.8
22.5°	1890.0	1881.6	1876.1	1875.6	1878.4
25°	1838.0	1830.6	1824.6	1823.2	1823.2
27.5°	1780.1	1772.2	1768.0	1761.5	1763.4
30°	1713.7	1705.4	1698.0	1694.2	1693.8
32.5°	1639.1	1630.7	1624.2	1623.8	1625.6
35°	1551.4	1544.4	1541.7	1539.3	1541.7
37.5°	1464.7	1451.7	1449.4	1448.9	1454.9
40°	1357.5	1352.9	1349.6	1347.3	1355.2
42.5°	1254.6	1245.3	1246.2	1237.4	1251.3
45°	1137.7	1135.4	1135.8	1127.5	1126.6
47.5°	1021.7	1021.3	1028.2	1005.0	1003.7
50°	917.4	912.8	924.3	888.6	878.9
52.5°	817.7	804.7	801.0	768.5	768.5
55°	719.3	695.2	687.8	667.4	671.6
57.5°	626.1	591.8	576.5	576.0	583.0
60°	533.8	494.9	473.5	490.2	498.1
62.5°	460.6	417.9	385.4	417.0	424.4
65°	394.2	353.4	311.2	356.2	371.5
67.5°	337.2	303.3	250.5	309.4	329.8
70°	288.5	258.3	207.3	272.7	300.1
72.5°	250.0	224.9	180.4	243.5	276.4
75°	218.4	195.7	167.4	215.2	253.7
77.5°	193.4	166.5	156.8	188.3	227.7
80°	161.4	136.8	138.2	161.9	194.8
82.5°	124.3	105.7	111.3	134.0	153.1
85°	83.5	75.1	77.9	99.7	106.7
87.5°	41.3	39.9	42.7	58.4	58.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)